

Amendments to the Claims

This listing of claims will replace all prior version and listings of claims in the application:

Listing of Claims:

- 1-20. (Cancelled).
21. (Currently amended): A saccharide-conjugated nanoparticle comprising:
- (a) a core gold nanoparticle, comprising gold atoms, without Fe atoms and having no magnetic property; [[and]]
 - (b) a plurality of saccharide molecules; and
 - (c) a linker, linking-attached the plurality of saccharide molecules to the core gold nanoparticle;[[,]]
- wherein the saccharide-conjugated nanoparticle has an average diameter of about 2-9 nm~~each of the saccharide molecules has a specific binding affinity to a target protein.~~
22. (Currently amended): The saccharide-conjugated nanoparticle of claim 21, wherein the ~~target protein is expressed by an infectious agent~~ plurality of saccharide molecules are selected from[[a]] the group consisting of bacteria, viruses, mycoplasma and fungi a monosaccharide and a Pk antigen.
23. (Currently amended): The saccharide conjugated nanoparticle of claim ~~[[22]]~~21, wherein the ~~infectious agent is present in a host organism~~plurality of saccharide molecules comprises at least 150 molecules.

24. (Currently amended): The saccharide-conjugated nanoparticle of claim 21, wherein the ~~target protein is a mannose specific binding protein~~linker is 5-thio-pentan-1-ol.
25. (Currently amended): ~~The saccharide-conjugated nanoparticle of claim 24, wherein the mannose specific binding protein is FimH protein~~ A composition comprising:
- (a) a saccharide-conjugated nanoparticle, which comprises:
 - (i) a core gold nanoparticle, comprising gold atoms, without Fe atoms and having no magnetic property;
 - (ii) a plurality of saccharide molecules; and
 - (iii) a linker, attaching the plurality of saccharide molecules to the core gold nanoparticle; and
 - (b) a pathogen, bound to the saccharide-conjugated nanoparticle.
26. (Currently amended): ~~The saccharide-conjugated nanoparticle of claim 21~~ composition of claim 25, wherein the target protein pathogen is Shiga-like toxin selected from the group consisting of bacteria, viruses, mycoplasma and fungi.
27. (Currently amended): ~~The saccharide-conjugated nanoparticle of claim 21~~ composition according to claim 25, wherein the target protein is lectin further comprising a non-human subject infected with the pathogen.

28. (Currently amended): The ~~saccharide conjugated nanoparticle of claim 27~~ composition of claim 25, wherein the ~~lectin~~ plurality of saccharide molecules are ~~is Concanavalin A~~ selected from the group consisting of a monosaccharide, and a Pk antigen.
29. (Currently amended): The ~~saccharide conjugated nanoparticle of claim 21~~ composition of claim 25, wherein the ~~saccharide linker is a monosaccharide~~ 5-thio-pentan-1-ol.
30. (Currently amended): The ~~saccharide conjugated nanoparticle of claim 29~~ composition of claim 25, wherein the ~~monosaccharide is mannose~~ plurality of saccharide molecules comprise at least 150 molecules.
31. (Currently amended): The ~~saccharide conjugated nanoparticle of claim 21~~ composition of claim 28, wherein the monosaccharide is selected from the group consisting of mannose, galactose, and glucose ~~is an oligosaccharide.~~
32. (Currently amended): The ~~saccharide conjugated nanoparticle~~ composition of claim ~~[[31]]~~ 28, wherein the ~~oligosaccharide is~~ plurality of saccharide molecules are ~~Pk antigen.~~
33. (Currently amended): The ~~saccharide conjugated nanoparticle~~ composition of claim ~~[[21]]~~ 29, wherein the plurality of saccharide is a polysaccharide ~~molecules comprise at least 150 molecules.~~

34. (Currently amended): ~~The saccharide-conjugated nanoparticle composition~~ of claim ~~[[21]]~~29, wherein the plurality of saccharide ~~[[is]]~~molecules are selected from mannose, galactose and glucose a monosaccharide and a Pk antigen.
35. (Currently amended): A saccharide-conjugated nanoparticle comprising:
- (a) a core gold nanoparticle, comprising gold atoms, without Fe atoms and having no magnetic property; ~~[[and]]~~
 - (b) a plurality of saccharide molecules; ~~and attached to the core gold nanoparticle~~
 - (c) a linker, attaching the plurality of saccharide molecules to the core gold nanoparticle;
- wherein ~~each of the plurality of saccharide molecules has a specific binding affinity to a target protein of an infectious agent~~ are selected from the group consisting of a monosaccharide and a Pk antigen.
36. (Currently amended): The saccharide-conjugated nanoparticle of claim 35, wherein the ~~target protein is Shiga-like toxin~~ plurality of saccharide molecules comprises at least 150 molecules.
37. (Currently amended): The saccharide-conjugated nanoparticle of claim 35, wherein the ~~target protein is a mannose-specific binding protein~~ monosaccharide is selected from the group consisting of mannose, galactose and glucose.

38. (Currently amended): ~~The saccharide-conjugated nanoparticle of claim 35;~~ A composition comprising:
- (a) a saccharide-conjugated nanoparticle according to claim 35; and
 - (b) a pathogen, bound to the nanoparticle ~~wherein the infectious agent is present in a host organism.~~
39. (Currently amended): ~~A saccharide-conjugated nanoparticle~~ composition comprising:
- (a) ~~a core-gold~~ saccharide-conjugated nanoparticle according to claim 38, ~~comprising gold atoms, without Fe atoms and having no magnetic property; and~~
 - (b) ~~a plurality of saccharide molecules attached to the core-gold nanoparticle, wherein each of the saccharide molecules has a specific binding affinity to lectin~~ subject infected with the pathogen.
40. (Currently amended): ~~The saccharide-conjugated nanoparticle~~ composition of claim 38, wherein ~~the lectin is Concanavalin-A~~ a monosaccharide is selected from the group consisting of mannose, galactose, and glucose.